## **E.7 Service Performance Response**

The following tables (Table E-8.1 for Release A and Table E-8.2 for Release B) provide subsystem target response time budgets for each service type pertinent to the Release A & B design. The response time budgets are mapped to entire subsystems and are not broken down to specific CSCI/HWCI components within subsystems. N/A (not applicable) means that there is no activity to be performed by a subsystem with regard to processing the service type in question. Notice that Guide Search and Document Search service types are applied to both Data Management and Data Server subsystems individually since they provide separate services for Guide and Document searches that are not reliant on one another.

\*Response time budgets are from initiation of query to start of display, exclusive of user environment and network delay. Resolution is currently provided at the Subsystem level. Future updates will provide testable constraints at the CI level where those constraints are meaningful.

Table E-8.1. Release A Service Performance Response Time Budgets by Subsystem (1 of 2)

Service	Release	Number of Operations per Hour	Specific Operation	Total Response Time Requirement *	DM R/T Requirement *	Data Server R/T Requirement *	CSS R/T Requirement *	ISS R/T Requirement *
Log-on and Authorisation (DM specific)	А	100	Account confirmation and authorization	13 seconds	4 seconds	N/A	8.5 seconds	0.5 seconds
Directory Search (DM specific)	А	80	Search by single keyword attribute	8 seconds	7.4 seconds	N/A	0.1 seconds	0.5 seconds
	A		Search by multiple keyword and time or space range check	13 seconds	12.4 seconds	N/A	0.1 seconds	0.5 seconds
Guide Search (DM specific)	А	40	Search for document by keyword	8 seconds	7.4 seconds	N/A	0.1 seconds	0.5 seconds
Guide Search (Data Server specific)	А	40	Search for document by keyword	8 seconds	N/A	7.4 seconds	0.1 seconds	0.5 seconds

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## A/B Service Performance Response Time Budgets by Subsystem (Originally Table E-8 in Appendix E of Release B DID 304 CDR 304-CD-005-002)

Table E-8.1. Release A Service Performance Response Time Budgets by Subsystem (2 of 2)

Service	Release	Number of Operations per Hour	Specific Operation	Total Response Time Requirement *	DM R/T Requirement *	Data Server R/T Requirement *	CSS R/T Requirement *	ISS R/T Requirement *
Inventory Search	A	120	Search one instrument by multiple keyword attribute w/time or space range check (1 DAAC)	8 seconds	2.5 seconds	4.9 seconds	0.1 seconds	0.5 seconds
	А		Search multiple instruments by multiple keyword attributes w/time or space range check (1 DAAC)	18 seconds	2.5 seconds	14.9 seconds	0.1 seconds	0.5 seconds
Browse (for data selection)	A	50	Retrieve and begin to display standard pre-computed browse product	58 seconds	8 seconds	49.4 seconds	0.1 seconds	0.5 seconds
Document Search (DM specific)	А	10	Search 1000 document pages by keyword	3 seconds	2.4 seconds	N/A	0.1 seconds	0.5 seconds
Document Search (Data Server specific)	А	10	Search 1000 document pages by keyword	3 seconds	N/A	2.4 seconds	0.1 seconds	0.5 seconds
Ordering Services	А	25	Local DAAC order submission and confirmation	13 seconds	2.5 seconds	9.9 seconds	0.1 seconds	0.5 seconds

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Table E-8.2. Release B Service Performance Response Time Budgets by Subsystem (1 of 3)

		Number of		Total Response		Data Server R/T		,
Service	Release	Operations per Hour	Specific Operation	Time Requirement *	DM R/T Requirement *	Requirement *	CSS R/T Requirement *	ISS R/T Requirement *
Log-on and Authorisation (CIDM specific)	В	100	Account confirmation and authorization	13 seconds	4 seconds	N/A	8.5 seconds	0.5 seconds
Log-on and Authorization (Data Server specific)	В	100	Account confirmation and authorization	13 seconds	N/A	4 seconds	8.5 seconds	0.5 seconds
Directory Search (CIDM specific)	В	80	Search by single keyword attribute	8 seconds	7.4 seconds	N/A	0.1 seconds	0.5 seconds
	В		Search by multiple keyword and time or space range check	13 seconds	12.4 seconds	N/A	0.1 seconds	0.5 seconds
Directory Search (Data Server specific)	В	80	Search by single keyword attribute	8 seconds	N/A	7.4 seconds	0.1 seconds	0.5 seconds
	В		Search by multiple keyword and time or space range check	13 seconds	N/A	12.4 seconds	0.1 seconds	0.5 seconds
Guide Search	В	40	Search for document by keyword	8 seconds	2.5 seconds	4.9 seconds	0.1 seconds	0.5 seconds

## Table E-8.2. Release B Service Performance Response Time Budgets by Subsystem (2 of 3)

Service	Release	Number of Operations per Hour	Specific Operation	Total Response Time Requirement *	CIDM R/T Requirement	Data Server R/T Requirement	CSS R/T Requirement	ISS R/T Requirement
Inventory Search	В	120	Search one instrument by multiple keyword attribute w/time or space range check (1 DAAC)	8 seconds	2.5 seconds	4.9 seconds	0.1 seconds	0.5 seconds
	В		Search multiple instruments by multiple keyword attributes w/time or space range check (1 DAAC)	18 seconds	2.5 seconds	14.9 seconds	0.1 seconds	0.5 seconds
			Multiple DAAC inventory search by keyword attributes and time and/or space range check					
	В			58 seconds	42.5 seconds	14.9 seconds	0.1 seconds	0.5 seconds
Status Check (account or request)	В	60	Status of pending order or Data Acquisition Request	13 seconds	2.5 seconds	9.9 seconds	.1 seconds	0.5 seconds
			Account status retrieval					
	В			13 seconds	2.5 seconds	9.9 seconds	.1 seconds	0.5 seconds

Table E-8.2. Release B Service Performance Response Time Budgets by Subsystem (3 of 3)

Service	Release	Number of Operations per Hour	Specific Operation	Total Response Time Requirement *	CIDM R/T Requirement	Data Server R/T Requirement	CSS R/T Requirement	ISS R/T Requirement
Browse (for data selection)	В	50	Retrieve and begin to display standard pre-computed browse product	58 seconds	8 seconds	49.4 seconds	0.1 seconds	0.5 seconds
Document Search (CIDM specific)	В	10	Search 1000 document pages by keyword	3 seconds	2.4 seconds	N/A	0.1 seconds	0.5 seconds
Document Search (Data Server specific)	В	10	Search 1000 document pages by keyword	3 seconds	N/A	2.4 seconds	0.1 seconds	0.5 seconds
Ordering Services	В	25	Local DAAC order submission and confirmation  Remote DAAC order submission and confirmation  Order cost estimate	13 seconds 38 seconds	2.5 seconds 5 seconds	9.9 seconds 32.4 seconds	0.1 seconds 0.1 seconds	0.5 seconds 0.5 seconds
	В			13 seconds	2.5 seconds	9.9 seconds	0.1 seconds	0.5 seconds